

**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**Apparatus and Method for Categorizing Services Using Canonical Service  
Descriptions**

the specification of which is identified by the attorney (IBM) Docket Number appearing above.

I hereby state that I have reviewed and understand the contents of the above- identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

**Prior Foreign Application(s)**

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year</u>	<u>Priority Claimed</u>
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I hereby claim the benefit (a) under Title 35, United States Code, §119(e) of any U.S. application listed below and identified as a provisional application or (b) under Title 35, United States Code, §120 of any U.S. application listed below and not identified as a provisional application, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior U.S. application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application

**Prior U.S. Applications**

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Bruce A. Clay, Reg. No. 32,121; Gregory M. Doudnikoff, Reg. No. 32,847; Edward H. Duffield, Reg. No. 25,970; Jerry W. Herndon, Reg. No. 27,901; Gerald R. Woods, Reg. No. 24,144; Jeanine S. Ray-Yarletts, Reg. No. 39,808; Joseph C. Redmond, Jr., Reg. No. 18,753; John E. Hoel, Reg. No. 26,279; Christopher A. Hughes, Reg. No. 26,914; and Edward A. Pennington, Reg. No. 32,588;

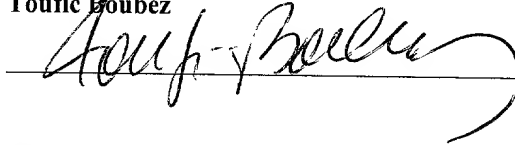
AND also,

Send all correspondence to: Gregory M. Doudnikoff, IBM Corporation T81/503; PO Box 12195; Research Triangle Park, NC 27709.

**First Inventor:**

Toufic Dubez

**Signature:**



12/13/2000

**Date**

**Residence:** 4005 Inkberry Court  
Apex, NC 27502

**Citizenship:** Canada

**Post Office Address:** Same as above.

**Second Inventor:**

Stephen L. Burbeck

**Signature:**



12/13/00

**Date**

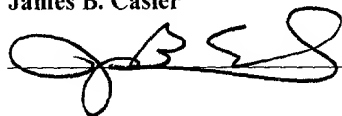
**Residence:** 109 Dundee Court  
Cary, NC 27511

**Citizenship:** USA

**Post Office Address:** Same as above.

**Third Inventor:** James B. Casler

**Signature:**



1/3/2001  
Date

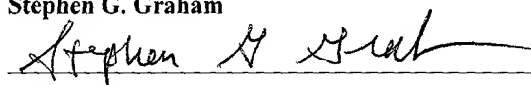
**Residence:** 1211 Maple Avenue  
Apex, NC 27502

**Citizenship:** USA

**Post Office Address:** Same as above.

**Fourth Inventor:** Stephen G. Graham

**Signature:**



2/1/2001  
Date

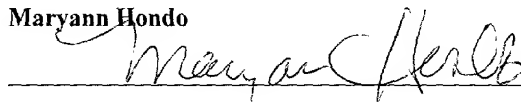
**Residence:** 203 Parkside Circle  
Chapel Hill, NC 27516

**Citizenship:** Canada

**Post Office Address:** Same as above.

**Fifth Inventor:** Maryann Hondo

**Signature:**



12/7/2000  
Date

**Residence:** 118 Oakland Ave.  
Arlington, MA 02476

**Citizenship:** USA

**Post Office Address:** Same as above.

# ASSIGNMENT

WHEREAS, I, William Banning Vail III of 3123 - 198th Place SE, Bothell, WA 98012, have invented a certain new and useful invention entitled "Monolithic Self Sharpening Rotary Drill Bit Having Tungsten Carbide Rods Cast in Steel Alloys" for which an application for Letters Patent of the United States was filed on June 17, 1996, said application being identified as Serial No. 08/664,791, which application issued on April 1, 1997 as U.S. Patent 5,615,747;

NOW THEREFORE, be it known that I, the said inventor, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Smart Drilling and Completion, Inc., a Washington corporation having a place of business at 3123 - 198th Place S.E., Bothell, WA 98012, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; I also assign any right, title or interest in and to the said invention which has not already been transferred to the assignee, I warrant that I have made no assignment of the invention, application or patent therefore to a party other than Smart Drilling and Completion, Inc. and I am under no obligation to make any assignment of the invention, application, or patent therefore to any other party other than a successor of Smart Drilling and Completion, Inc.; and I further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment, to Smart Drilling and Completion, Inc., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the party hereto has executed this Assignment as of the date indicated hereunder.

William Banning Vail III  
William Banning Vail III

11/15/2000  
Date

COPY

# ASSIGNMENT

WHEREAS, I, William Banning Vail III of 3123 - 198th Place SE, Bothell, WA 98012, have invented a certain new and useful invention entitled "Monolithic Self Sharpening Rotary Drill Bit Having Tungsten Carbide Rods Cast in Steel Alloys" for which an application for Letters Patent of the United States was filed on March 31, 1997, said application being identified as Serial No. 08/825,575, which patent issued on November 17, 1998 as U.S. Patent 5,836,409;

NOW THEREFORE, be it known that I, the said inventor, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Smart Drilling and Completion, Inc., a Washington corporation having a place of business at 3123 - 198th Place S.E., Bothell, WA 98012, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; I also assign any right, title or interest in and to the said invention which has not already been transferred to the assignee, I warrant that I have made no assignment of the invention, application or patent therefore to a party other than Smart Drilling and Completion, Inc. and I am under no obligation to make any assignment of the invention, application, or patent therefore to any other party other than a successor of Smart Drilling and Completion, Inc.; and I further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment, to Smart Drilling and Completion, Inc., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the party hereto has executed this Assignment as of the date indicated hereunder.

William Banning Vail III  
William Banning Vail III

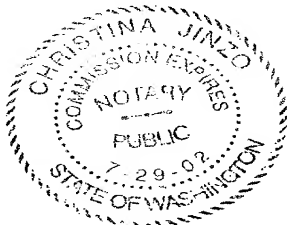
11/15/2000  
Date

STATE OF WASHINGTON )  
 ) ss.  
COUNTY OF SNOHOMISH )

COPY

Before me, a Notary Public in and for said County and State, personally appeared before me, or is known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 15th day of NOVEMBER, 20 00.



Christina Jinzo  
Notary Public

My Commission Expires: 7-29-02

# ASSIGNMENT

WHEREAS, I, William Banning Vail III of 3123 - 198th Place SE, Bothell, WA 98012, have invented a certain new and useful invention entitled "Rotary Drill Bit Compensating for Changes in Hardness of Geological Formations" for which an application for Letters Patent of the United States has been filed on November 16, 1998, said application being identified as Serial No. 09/192,248;

NOW THEREFORE, be it known that I, the said inventor, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Smart Drilling and Completion, Inc., a Washington corporation having a place of business at 3123 - 198th Place S.E., Bothell, WA 98012, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; I also assign any right, title or interest in and to the said invention which has not already been transferred to the assignee, I warrant that I have made no assignment of the invention, application or patent therefore to a party other than Smart Drilling and Completion, Inc. and I am under no obligation to make any assignment of the invention, application, or patent therefore to any other party other than a successor of Smart Drilling and Completion, Inc.; and I further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment, to Smart Drilling and Completion, Inc., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the party hereto has executed this Assignment as of the date indicated hereunder.

William Banning Vail III  
William Banning Vail III

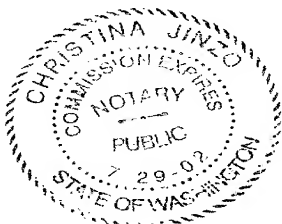
11/15/2000  
Date

STATE OF WASHINGTON )  
 ) ss.  
COUNTY OF SNOHOMISH )

COPY

Before me, a Notary Public in and for said County and State, personally appeared before me, or is known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 15TH day of NOVEMBER, 20 00.



Christina Jinzo  
Notary Public

My Commission Expires: 7-29-02